

10/733841

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L8: Entry 1 of 2

File: USPT

Nov 2, 2004

US-PAT-NO: 6813559

DOCUMENT-IDENTIFIER: US 6813559 B1

TITLE: Orbiting a waypoint

DATE-ISSUED: November 2, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bodin; William Kress	Austin	TX		
Redman; Jesse J. W.	Cedar Park	TX		
Thorson; Derral C.	Austin	TX		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE	CODE
International Business Machines Corporation	Armonk	NY				02

APPL-NO: 10/692126 [\[PALM\]](#)

DATE FILED: October 23, 2003

INT-CL-ISSUED: [07] [G01 C 21/26](#)

US-CL-ISSUED: 701/206; 701/3, 701/23, 701/24, 701/213, 244/75R

US-CL-CURRENT: [701/206](#); [244/75.1](#), [701/213](#), [701/23](#), [701/24](#), [701/3](#)

FIELD-OF-CLASSIFICATION-SEARCH: 701/1, 701/2, 701/3, 701/10, 701/13, 701/200-214, 701/23, 701/24, 340/974, 340/979, 244/45R, 244/75R

See application file for complete search history.

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

[Search Selected](#)[Search ALL](#)[Clear](#)

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	5716032	February 1998	McIngvale	244/185
<input type="checkbox"/>	6122572	September 2000	Yavnai	701/23
<input type="checkbox"/>	6584382	June 2003	Karem	701/3
<input type="checkbox"/>	6626398	September 2003	Cox et al.	244/45R
<input type="checkbox"/>	6711477	March 2004	Johnson et al.	701/3

ART-UNIT: 3661

PRIMARY-EXAMINER: Camby; Richard M.

ATTY-AGENT-FIRM: Biggers; John R. Carwell; Robert M. Biggers & Ohanian, LLP

ABSTRACT:

Navigating a UAV including orbiting a waypoint including defining four bracket lines surrounding a waypoint, flying the UAV from a course segment having coordinate values in a range into a course segment not having coordinate values in the range, wherein a bounding bracket line defines a boundary between the segments; selecting, a heading parallel to a bracket line in dependence upon an orbital direction; the UAV in the orbital direction to fly on a the heading; and repeatedly: flying the UAV from a course segment having coordinate values in a range into a course segment not having coordinate values in the range, wherein a bounding bracket line defines a boundary between the segments; and turning the UAV in the orbital direction to fly on a heading parallel to the bounding bracket line.

21 Claims, 19 Drawing figures

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L8: Entry 2 of 2

File: USPT

Feb 25, 2003

US-PAT-NO: 6526351

DOCUMENT-IDENTIFIER: US 6526351 B2

TITLE: Interactive multimedia tour guide

DATE-ISSUED: February 25, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Whitham; Charles Lamont	Reston	VA	20191	

APPL-NO: 09/900161 [\[PALM\]](#)

DATE FILED: July 9, 2001

INT-CL-ISSUED: [07] [G01](#) [C](#) [21/00](#)

US-CL-ISSUED: 701/211; 701/213, 701/201, 701/207, 701/208

US-CL-CURRENT: [701/211](#); [701/201](#), [701/207](#), [701/208](#), [701/213](#)

FIELD-OF-CLASSIFICATION-SEARCH: 701/201, 701/207, 701/208, 701/209, 701/211, 701/212, 701/213, 340/988, 340/989, 340/990, 340/995
See application file for complete search history.

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

[Search Selected](#)

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	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	5767795	June 1998	Schaphorst	340/988
<input type="checkbox"/>	5802492	September 1998	DeLorme et al.	701/201
<input type="checkbox"/>	5924075	July 1999	Kanemitsu	705/6
<input type="checkbox"/>	5948040	September 1999	DeLorme et al.	701/201
<input type="checkbox"/>	5964821	October 1999	Brunts et al.	701/201
<input type="checkbox"/>	6009403	December 1999	Sato	705/6
<input type="checkbox"/>	6055478	April 2000	Heron	701/213
<input type="checkbox"/>	6085148	July 2000	Jamison et al.	701/211
<input type="checkbox"/>	6148261	November 2000	Obradovich et al.	701/208
<input type="checkbox"/>	6199045	March 2001	Giniger et al.	701/1

<input type="checkbox"/>	<u>6295502</u>	September 2001	Hancock et al.	701/201
<input type="checkbox"/>	<u>6321158</u>	November 2001	DeLorme et al.	701/201

ART-UNIT: 3661

PRIMARY-EXAMINER: Cuchlinski, Jr.; William A.

ASSISTANT-EXAMINER: Marc-Coleman; Marthe Y.

ABSTRACT:

An interactive multimedia tour guide provides a user with packaged tours in a multimedia format that includes directions and useful information about a selected tour. The packaged tours are composed of principle and ancillary points of interest. A user profile is developed which is used to generate a preference mask for the user. The preference mask is used to select only those ancillary points of interest that would be of most interest to the user. The selected tour is stored on a portable self-contained electronic system which includes a GPS navigation system and cell phone. The system includes voice recognition software and speech synthesis software to provide the user with a verbal interface That provides directions and information on various points of interest during the tour. Combined with optional camera, the interactive multimedia tour guide allows for rapid identification and editing of pictures or videos made on a tour.

42 Claims, 24 Drawing figures

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